

NSF-CNPq COLLABORATIVE RESEARCH OPPORTUNITIES ANNOUNCEMENT

**DIRECTORATE FOR COMPUTER AND
INFORMATION SCIENCE AND ENGINEERING
(CISE)**

TARGET DATE: *First Friday of October of Each Year*



NATIONAL SCIENCE FOUNDATION

NSF - CNPq Collaborative Research Opportunities for FY 1998 (CISE)

The National Science Foundation (NSF) of the United States and the Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq) of Brazil announce a pilot activity to support new efforts in international cooperative research in any CISE-related area where the efforts are likely to produce complementary and synergistic effects. Proposals from Brazilian researchers and research institutions are selected and administered by CNPq's ProTem Office (Programa Temático Multiinstitucional em Ciência da Computação) and are subject to the standards for submission and review of that organization. Proposals to NSF from researchers at U.S. institutions will be subject to standard NSF review procedures outlined in the Grant Proposal Guide (GPG) (NSF 98-2) and will be processed by the Directorate for Computer and Information Science and Engineering (CISE).

Objectives

The purpose of the initiative is to advance scientific and engineering knowledge through joint research efforts of investigators from the United States of America and Brazil having complementary talents and interests, and to capitalize on the international character of modern scientific research and the ability to conduct collaboration at a distance supported by computer network infrastructures.

Scope and Types of Support

Projects supported in this collaborative initiative must include researchers and educators in institutions from both countries in any of the CISE-supported disciplines. Corresponding proposals are required from submitters in both countries for binational awards. It is expected that the Brazilian and U.S. projects will have the same scope and duration but independent budgets. The roles of the participants from each country should be made explicit in the project description, emphasizing the complementary facilities and expertise and the mutual benefits gained through the international collaboration.

This initiative is intended to support international collaborative activity; it is not meant to support US investigators in individual, non-collaborative research efforts. In general, NSF will only administer and support U.S. investigators, while CNPq will administer and cover costs incurred by Brazilian researchers. Awards can range up to \$200,000 with a duration from one to three years; larger grants may be awarded under special circumstances if appropriate. NSF customarily does not

pay indirect costs for grants awarded primarily for the support of travel or equipment.

CISE estimates around 6 to 10 awards per year for the directorate.

Cooperative proposals considered under this announcement may include new requests or supplements to funded projects. Proposals are accepted in all areas of scientific research currently supported or encouraged by the CISE Directorate of NSF. For further information, refer to the Grant Proposal Guide (NSF 98-2), and the WWW at <http://www.nsf.gov/CISE>.

Eligible activities include:

- Projects for research collaboration by individuals or research teams in each country, including researchers and graduate students, sharing common research objectives. The Principal Investigator(s) (PIs) on each of the two complementary proposals in a collaborative project may be located at a single institution in each country, or may form a collaboration across several institutions.
- Focused research workshops on topics within the scope both of this initiative and the guidelines of the two supporting organizations. Workshops would normally be small (10 to 30 participants) and limited to a single meeting of a few days.
- Projects to support cross-national short and long term visits by junior (post-doctoral) and senior faculty with the goal of enabling a more in-depth exchange of expertise. Such visits should lead to increased understanding between the individuals or groups and to new long-term synergies and collaborative projects. These activities should be differentiated from short term planning visits which are supported by other existing international programs in each sponsoring agency.

Researchers intending to submit a proposal should refer for guidance to standard NSF criteria and the relevant program criteria applicable to the proposed effort. In addition, a guiding principle in the selection of successful projects is *mutual scientific benefit*: the synergy should produce scientific research results that are unlikely to take place without the interaction. Benefits may include, for example, sharing of facilities or research environments, joining of complementary skills, providing new insights and improvements to science and engineering education,

or combining the use of resources in solving problems of common concern. As in all areas, NSF encourages the integration of education and research as well as activities contributing to the development of human resources.

Who May Apply

Scientists and engineers from universities and other non-profit research institutions in the United States of America and Brazil conducting research in areas relating to CISE are encouraged to submit proposals for support under this initiative. All research proposals submitted under this initiative must be collaborative, of potential mutual benefit to the two countries, and be submitted by U.S. researchers to NSF and by Brazilian researchers to CNPq.

What to Submit

Proposals should describe the project in sufficient detail to enable evaluation by experts in the technical areas involved, provide a rationale for the international collaboration, and identify clearly the role of the participants from the United States of America and Brazil and their respective contributions to the project. Corresponding collaborative proposals should show strong bilateral interactions; they need not match in size of financial request but are usually expected to be of the same duration.

Proposal format must follow the guidelines of the Grant Proposal Guide 98-2). In addition, a page should be included after the cover page identifying clearly the Brazilian counterparts. This page should include:

- Project Title, PI Name and Institution of the United States PI,
- PI Name and Institution of Brazilian PI,
- A brief description of previous interactions with the Brazilian partner, and a short biographical note of the latter.
- A statement indicating that a corresponding proposal is being submitted to CNPq in Brazil.

On the cover page, the first box should be filled in with “CISE NSF-CNPq,” the number of this publication, “NSF 98-139,” and the closing date. The second box should indicate the name of the appropriate disciplinary program in CISE. The Project Title should begin with the words “NSF-CNPq Collaborative Research”.

Where to Submit

For NSF submissions, the number of copies, the cover forms, the signatures, etc. and the instructions of where to submit the proposals follow the guidelines of the Grant Proposal Guide (NSF 98-2). Questions should be directed

to the appropriate Program Director or to the Coordinator in CISE (703-306-1980 or email nsf-braz@nsf.gov). The proposal to NSF must be addressed as follows:

NATIONAL SCIENCE FOUNDATION PPU

Announcement No. 98-139

4201 Wilson Boulevard, Room P60

Arlington, VA 22230

Brazilian collaborators should contact the ProTeM-CC Program of CNPq at:

ProTeM-CC

CNPq

SEPN 509 B1 A sala 322

70970-510 Brasilia DF Brasil

Principal Investigators (PIs) at registered FastLane institutions are strongly encouraged to use the NSF FastLane Proposal Preparation application located at <http://www.fastlane.nsf.gov> to prepare their proposal and allow their Sponsored Research Office (SRO), or equivalent, access to the proposal. Once granted access, the SRO can submit the proposal to NSF using FastLane. Further information is provided at the indicated website.

Proposal Review Process

Proposals will be subjected to standard merit review following the corresponding agency guidelines and reporting process. Following merit review, a funding recommendation from NSF based on technical merit will be made by the Program Director in the disciplinary area into which the proposal falls; final award recommendation, however, is additionally contingent on approval by CNPq of the coordinated Brazilian proposal. Similarly, a proposal declined by NSF will have its Brazilian counterpart proposal declined as well.

Deadline

Proposals submitted under this announcement must be received at NSF by the first Friday in October of each year.

Award Administration

Grants awarded as a result of this announcement will be administered in accordance with the terms and conditions of NSF GC-1, “Grant General Conditions,” FDP-III, “Federal Demonstration Partnership (FDP) General Terms and Conditions” depending on the grantee institution, or “Cooperative Agreement General Terms and Conditions.” Copies of these documents are available via e-mail at pubs@nsf.gov or the NSF Publications Clearing House,

phone: 703-292-7827. More comprehensive information is contained in the NSF Grant Policy Manual (7/95) NSF 95-26, available on the NSF home page at <http://www.nsf.gov/bfa/cpo/gpm95/start.htm>, or for sale through the Superintendent of Documents, Government Printing Office, Washington, DC 20402.

Additional Information

For more information on the NSF-CNPq Program, contact:

Program Director
NSF-CNPq CISE Collaboration
Division of Experimental and Integrative Activities,
Room 1160
National Science Foundation
4201 Wilson Blvd
Arlington, VA 22230

Electronic mail address: NSF-braz@nsf.gov
Telephone number: (703) 306-1980

Other International Opportunities

NSF's Division of International Programs (INT) supports planning visits in order to allow US investigators to consult with potential counterparts to finalize plans for cooperative research, the preliminary phases of cooperative projects, and workshops. Additional information may be obtained from the INT Program Offices, (703) 306-1706 or by obtaining publications NSF 96-14, International Opportunities for Scientists and Engineers. CISE, together with the Engineering (ENG) Directorate, also sponsors collaborative research between the USA and Mexico under the NSF-CONACyT Program (NSF-CONACyT Collaborative Research Opportunities, NSF 96-145).

The Foundation provides awards for research and education in the sciences and engineering. The awardee is wholly responsible for the conduct of such research and preparation of the results for publication. The Foundation, therefore, does not assume responsibility for the research findings or their interpretation.

The Foundation welcomes proposals from all qualified scientists and engineers and strongly encourages women, minorities, and persons with disabilities to compete fully in any of the research and education related programs described here. In accordance with federal statutes, regulations, and NSF policies, no person on grounds of race, color, age, sex, national origin, or disability shall be excluded from participation in, be denied the benefits of, or be subject to discrimination under any program or activity receiving financial assistance from the National Science Foundation.

Facilitation Awards for Scientists and Engineers with Disabilities (FASSED) provide funding for special assistance or equipment to enable persons with disabilities (investigators and other staff, including student research assistants) to work on NSF projects. See the program announcement or contact the program coordinator at (703) 306-1636.

Privacy Act and Public Burden Statements. The information requested on proposal forms and project reports is solicited under the authority of the National Science Foundation Act of 1950, as amended. The information on proposal forms will be used in connection with the selection of qualified proposals; project reports submitted by awardees will be used for program evaluation and reporting within the Executive Branch and to Congress. The information requested may be disclosed to qualified reviewers and staff assistants as part of the application review process; to applicant institutions/grantees to provide or obtain data regarding the application review process, award decisions, or the administration of awards; to government contractors, experts, volunteers and researchers as necessary to complete assigned work; to other government agencies needing information as part of the review process or in order to coordinate programs; and to another Federal agency, court or party in a court or Federal administrative proceeding if the government is a party. Information about Principal Investigators may be added to the Reviewer file and used to select potential candidates to serve as peer reviewers or advisory committee members. See Systems of Records, NSF-50, "Principal Investigator/Proposal File and Associated Records," 63 Federal Register 267 (January 5, 1998), and NSF-51, "Reviewer/Proposal File and Associated Records," 63 Federal Register 268 (January 5, 1998). Submission of the information is voluntary. Failure to provide full and complete information, however, may reduce the possibility of receiving an award.

Public reporting burden for this collection of information is estimated to average 120 hours per response, including the time for reviewing instructions. Send comments regarding this burden estimate and any other aspect of this collection of information, including suggestions for reducing this burden, to:

Suzanna Plimpton
Reports Clearance Officer
Division of Administrative Services
National Science Foundation
Arlington, VA 22230.

The National Science Foundation has TDD (Telephonic Device for the Deaf) capability, which enables individuals with hearing impairment to communicate with the Foundation about NSF programs, employment, or general information. To access NSF TDD, dial (703) 292-5090 or (800) 281-8749; for FIRS, 1-800-877-8339.

This program is described in the Catalog of Federal Domestic Assistance category CFDA #47.070.

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ARLINGTON, VA 22230

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